MEDICAL MANAGEMENT OF VACCINE REACTIONS IN CHILDREN AND TEENS

All vaccines have the potential to cause an adverse reaction. To minimize adverse reactions, patients should be carefully screened for precautions and contraindications before vaccine is administered. Even with careful screening, reactions can occur. These reactions can vary from trivial and inconvenient (e.g., soreness, itching) to severe and life threatening (e.g., anaphylaxis). If reactions occur, staff should be prepared with procedures for their management. The table below describes procedures to follow if various reactions occur.

| REACTION | SYMPTOMS | MANAGEMENT |
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| Localized | Soreness, redness, itching, or swelling at the injection site | Apply a cold compress to the injection site. Consider giving an analgesic (pain reliever) or antipruritic (antiitch) medication. |
| | Slight bleeding | Apply an adhesive compress over the injection site |
| | Continuous bleeding | Place thick layer of gauze pads over site and maintain direct and firm pressure; raise the bleeding injection site (e.g., arm) above the level of the patient's heart. |
| Psychological fright and syncope (fainting) | Fright before injection is given | Have patient sit or lie down for the vaccination |
| | Extreme paleness, sweating, coldness of the hands and feet, nausea, light-headedness, dizziness, weakness, or visual disturbances | Have patient lie flat or sit with head between knees for several minutes. Loosen any tight clothing and maintain an open airway. Apply cool, damp cloths to patient's face and neck. |
| | Fall, without loss of consciousness | Examine the patient to determine if injury is present before attempting to move the patient. Place patient flat on back with feet elevated. |
| | Loss of consciousness | Check the patient to determine if injury is present before attempting to move the patient. Place patient flat on back with feet elevated. Call 911 if patient does not recover immediately. |
| Anaphylaxis | Sudden or gradual onset of generalized itching, erythema (redness), or urticaria (hives); angioedema (swelling of the lips, face, or throat); severe bronchospasm (wheezing); shortness of breath; shock; abdominal cramping; or cardiovascular collapse | See "Emergency Medical Protocol for Management of Anaphylactic Reactions in Children and Teens" on the reverse side for detailed steps to follow in treating anaphylaxis. |

Supplies Needed:

| Aqueous epinephrine 1:1000 dilution, in ampules, vials of solution, | Sphygmomanometer (child, adult & extra-large cuffs) and stethoscope |
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| or prefilled syringes, including epinephrine autoinjectors (e.g., EpiPen). If EpiPens are to be stocked, both EpiPen Jr. (0.15 mg) and | Pediatric & adult size pocket masks with one-way valve |
| adult EpiPens (0.30 mg) should be available | Alcohol swabs |
| Diphenhydramine (Benadryl) injectable (50 mg/mL solution) and oral (12.5 mg/5 mL suspension) and 25 mg or 50 mg capsules or tablets | Flashlight with extra batteries (for examination of mouth and throat) |
| Syringes: 1–3 cc, 22–25g, 1", 1½", and 2" needles for | Wrist watch |
| epinephrine and diphenhydramine (Benadryl) | Tourniquet |
| Pediatric & adult airways (small, medium, and large) | Cell phone or access to an on-site phone |